CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.04/RVK/CSR-05/325v/CEMENT/2017-18 Date: 06.05.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vijayakumar,** No. 48/5, C Block, Sahakarnagara, Bangalore.
* Name of Work	:	Construction of RCC drain along 7th B main in Ward No. 04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/171/2017-18 Dated: 02.05.2017
* Sample ID	:	Cement – Sample 3
Sample Received on	:	02.05.2017
Period of Testing	:	02.05.2017 to 06.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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AE W4

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Job No.: CTCE/BBMP/W.No.04/RVK/CSR-05/325v/SAND-Gradation/2017-18 06.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vijayakumar,** No. 48/5, C Block, Sahakarnagara, Bangalore.
* Name of Work	:	Construction of RCC drain along 7th B main in Ward No. 04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/171/2017-18 Dated: 02.05.2017
* Sample ID	:	Fine Aggregates – Sample 3
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	02.05.2017
Date of Testing	:	06.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.40	90-100	90-100	90-100	95-100
2.36	76.20	60-95	75-100	85-100	95-100
1.18	54.80	30-70	55-90	75-100	90-100
600 Micron	29.50	15-34	35-59	60-79	80-100
300 Micron	13.80	5-20	8-30	12-40	15-50
150 Micron	4.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.04/RVK/CSR-05/325v/AGG/GR/2017-18 06.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP,
* Agency	:	**Mr. R. Vijayakumar,** No. 48/5, C Block, Sahakarnagara, Bangalore.
* Name of Work	:	Construction of RCC drain along 7th B main in Ward No. 04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/171/2017-18 Dated: 02.05.2017
* Sample ID	:	Coarse Aggregates (40mm) – Sample 3
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	02.05.2017
Date of Testing	:	06.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.44	95-100	85-100
20	32.22	30-70	0-20
10	15.36	10-35	0-5
4.75	3.08	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/W.No.04/RVK/Steel/2017-18

06.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vijayakumar,** No. 48/5, C Block, Sahakarnagara, Bangalore.
* Name of work	:	Construction of RCC drain along 7th B main in Ward No. 04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/171/2017-18 Dated: 02.05.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	06.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	515	556	13.40	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.04/RVK/CSR-05/325v/Cube/2017-18 13.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vijayakumar,** No. 48/5, C Block, Sahakarnagara, Bangalore.
* Name of the work	:	Construction of RCC drain along 7th B main in Ward No. 04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/171/2017-18 Dated: 02.05.2017
* Sample ID	:	Covering Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2017	13.07.2017	8.128	475.4	21.13
2	15.06.2017	13.07.2017	8.215	491.7	21.85
3	15.06.2017	13.07.2017	8.347	513.6	22.83

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vijayakumar,** No. 48/5, C Block, Sahakarnagara, Bangalore.
* Name of the work	:	Construction of RCC drain along 7th B main in Ward No. 04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/171/2017-18 Dated: 02.05.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2017	17.07.2017	8.258	483.5	21.49
2	19.06.2017	17.07.2017	8.393	494.6	21.98
3	19.06.2017	17.07.2017	8.465	515.5	22.91

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* Reference	:	BBMP/AEE/YSTSD/171/2017-18 Dated: 02.05.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2017	17.07.2017	8.198	471.2	20.94
2	19.06.2017	17.07.2017	8.287	486.5	21.62
3	19.06.2017	17.07.2017	8.358	508.8	22.61

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* Reference	:	BBMP/AEE/YSTSD/171/2017-18 Dated: 02.05.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.06.2017	19.07.2017	8.189	484.3	21.52
2	21.06.2017	19.07.2017	8.274	495.5	22.02
3	21.06.2017	19.07.2017	8.386	516.2	22.94

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